

Research for Mitigating Syndromes of Global Change

**A Transdisciplinary Appraisal of Selected
Regions of the World to Prepare Development-
Oriented Research Partnerships**

Edited by
Hans Hurni, Urs Wiesmann
and Roland Schertenleib

NCCR North-South
Swiss National Centre of Competence
in Research North-South
University of Berne

Table of Contents

Preface

Part I Background and Framework

- | | | |
|---|--|-----|
| 1 | Initiating Research for Mitigating Syndromes of Global Change
in Different Contexts
Hans Hurni, Urs Wiesmann, Pascale Anton and Peter Messerli | 1 1 |
| 2 | Towards Transdisciplinarity in Sustainability-Oriented Research
for Development
Hans Hurni and Urs Wiesmann | 31 |
| 3 | The Transdisciplinary Approach to Regional Pre-syntheses:
A Basis for Syndrome Mitigation Research
Urs Wiesmann and Hans Hurni | 43 |

Part II Regional Syntheses on Contexts of Syndromes of Global Change

- | | | |
|---|---|------|
| 4 | JACS West Africa
Urbanisation and Nomadic Lifestyle: Research on Vulnerability and
Risks to Improve Well-being at Household and Population Levels
Marcel Tanner, Kaspar Wyss, Jakob Zinsstag, N'Diekhor Yemadji, Esther Schelling,
Brigit Obristand GueladioCisse | 61 |
| 5 | JACS East Africa
Searching for Endogenous Solutions to Sustainable Development in
a Challenging Environment
Boniface P. Kiteme, Salome Misana and UrsWiesmann | 95 |
| 6 | JACS Horn of Africa
Managing Resources and Disputes in Uncertain Environments
Yacob Arsano, Berhanu Debele, Eva Ludi and Seyoum Gebre Selassie | 141 |
| 7 | JACS Central Asia
Facing the Problems ofTransition towards Sustainable Development
Asylbek Keshikbaev, Yuri Badenkov, Hans Hurni, Talaipek Koichumanov,
Alexander Miroshnichenko, Khukmatullo Akhrnadov and Yrysbek Malenov | 1 83 |

- 8 JACS South Asia
Sustainable Development in Marginal Regions of South Asia
Ulrike Miiller-Boker, with the support of Danilo Geiger, Urs Geiser, Vidya Kansakar,
Michael Kollmair, Kate Molesworth and Abid Suleri **225**
- 9 JACS South East Asia
Improving Living Conditions through Integrated Environmental Management
Chongrak Polprasert, Roland Schertenleib, Hasan Belevi, Vu Thi Vin, Tiann Monie,
Inthavong Chanthavipone and Urs Wiesmann **263**
- 10 JACS Central America and the Caribbean
Key Challenges of Sustainable Development and Research Priorities:
Social Practices as Driving Forces of Change
Augusto Barrera, Jean-Claude Bolay, Carlos Garcia Pleyan and Silvia Hostettler,
with the support of Peter Gerritsen, Rosaluz Mejia, Claudia Ortiz Arrona, Magaly Sanchez R.,
Yves Pedrazzini, Lena Poschet and Adriana Rabinovich **293**
- 11 JACS South America
Citizenship, Inequity and Environmental Issues in the Andes
Isabelle Milbertjaquelina Garrido, Yvan Droz and Frank Muttenzer **329**
- 12 JACS Alps
An Integrated View of the Dynamics of Regional Development as
a Basis for Mutual Learning
Karina Liechti and Urs Wiesmann **365**

Part III

Synopsis and Outlook

- 13 Synopsis of Syndrome Contexts and Core Problems Associated
with Syndromes of Global Change
Peter Messerli and Urs Wiesmann **383**
- 14 Designing Future Research Projects in an Integrated Framework
Hans Humi and Urs Wiesmann, with contributions from Jean-Claude Bolay, Marc Hufty, Eva Ludi,
Daniel Maselli, Isabelle Milbert, Ulrike Muller-Boker and Esther Shelling **425**

Annexes

- Annex 1
List of Workshop Participants **443**
- Annex 2
List of Abbreviations **459**